

WHAT IS CLAIMED IS:

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1. A transmission method for converting a packet frame of a user into a synchronous frame and transmitting said synchronous frame by a time division multiplex network, the method comprising
10 the step of:

allocating a time-division multiplex transmission band to said user according to a channel band of said packet frame of said user.

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2. A transmission device comprising:
converting means for converting a packet
20 frame of a user into a synchronous frame so as to transmit said synchronous frame by a time division multiplex network; and

transmission-band allocating means for allocating a time-division multiplex transmission
25 band to said user according to a channel band of said packet frame of said user.

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3. The transmission device as claimed in claim 2, wherein said converting means maps said packet frame of said user to a payload of a minimum-unit synchronous frame of a plurality of paths in
35 bytes.

4. The transmission device as claimed in
claim 2, wherein said converting means maps said
packet frame of said user to a payload of a minimum-
unit synchronous frame of a plurality of paths in
5 units corresponding to a number of bytes of said
payload.

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5. The transmission device as claimed in
claim 2, wherein said converting means maps said
packet frame of said user to a payload of a minimum-
unit synchronous frame of a plurality of paths in
15 units corresponding to a number of bytes of said
packet frame.

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6. The transmission device as claimed in
claim 5, wherein said converting means maps said
packet frame of said user to the payload of the
minimum-unit synchronous frame of the paths
25 excluding a troubled path when a trouble occurs in
any of said paths.

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7. The transmission method as claimed in
claim 1, wherein said packet frame of said user is
transmitted through a gigabit LAN.

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8. The transmission method as claimed in
claim 1, wherein said time division multiplex
network is a SONET (Synchronous Optical Network).

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9. The transmission device as claimed in
claim 2, wherein said packet frame of said user is
10 transmitted through a gigabit LAN.

15 10. The transmission device as claimed in
claim 2, wherein said time division multiplex
network is a SONET (Synchronous Optical Network).

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